A high-speed photograph of a water droplet falling into a pool of water, creating a series of concentric ripples. The droplet is captured mid-fall, just above the surface, with a small splash of water visible below it. The background is a solid light blue color.

Central Coast Water Board

Comments to State Water Board

Phase II Stormwater Permit Workshop

January 8, 2013

Presented by:

Michael Thomas

Dominic Roques, P.G.

Central Coast Water Board Staff

Maintain Progress Already Achieved

- Attachment J
- Section E.1.b

Central Coast Joint Effort Post-Construction Requirements (Attachment J of Draft Permit)

- Current Permit adopted 2003
- Prevent further delay
- Progress in Phase I areas

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

- 2003 – 2008: poor progress in Central Coast Phase IIs due to lack of specific requirements
- To correct this, Central Coast Region started the Joint Effort
- 2013: Central Coast Phase IIs will begin implementation

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

- Process to develop requirements is built on a solid foundation of:
 - Stakeholder involvement
 - Scientific assessment
- The outcome is a better set of requirements
- Requirements will evolve – this is first step

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

- If Attachment J omitted, the Draft Permit would instead require:
 - One-size-fits-all minimum standard
 - In effect in 2015
- 12 years since first permit adopted
- 7 years since Central Coast Region prioritized post-construction requirements
- 2 years later than Central Coast communities would start implementation

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

The 95th Percentile Criterion

Why?

Where!

How!

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

The 95th Percentile Criterion

- Applies to runoff RETENTION – not TREATMENT
- Surrogate for pre-development hydrologic response to rainfall
- Locations where **infiltration** and **subsurface flow** are dominant

Dominant Watershed Processes



Groundwater infiltration

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

The 95th Percentile Criterion

- Pre-development condition supports intact watershed processes and beneficial uses
 - e.g., Groundwater BU
 - 80% of Central Coast water supply

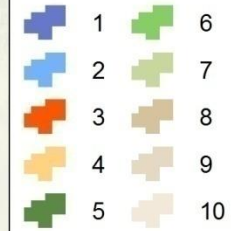
Dominant Watershed Processes

Shallow subsurface flow and sediment creep



Map of Watershed Management Zones

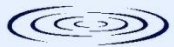
WATERSHED MANAGEMENT ZONES



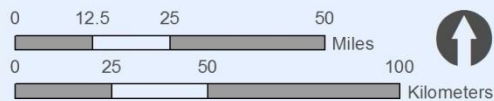
Watsonville

Santa Maria

Santa Barbara



Stillwater Sciences
www.stillwatersci.com



Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

The 95th Percentile Criterion

- Application prioritized in new development
- Adjusted for re-development
- Ensures application where it matters most to water quality

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

Retention Facility Sizing

- Same criteria as Draft Permit
- Event-based approach is alternative to continuous simulation modeling
- Conservative sizing method
- Working with stakeholders to identify alternatives

Central Coast Joint Effort

Post-Construction Requirements

(Attachment J of Draft Permit)

Complexity

- Many provisions for partial and alternative compliance
- Respond to stakeholder interests
- More lengthy, but specific and clear
- Staff providing guidance and training

Central Coast Joint Effort Post-Construction Requirements

- Comprehensive process
- Stakeholders and technical experts
- Reasonable and flexible
- Continuing stakeholder process
- Starting point in a long-term process to protect beneficial uses

Section E.1.b

- Balances consistency and flexibility
- Protects water quality
- Meets maximum extent practicable standard

Section E.1.b

- Differences in municipal programs are appropriate
 - Age of programs differs
 - Municipal conditions are diverse
 - Programs have innovated

Central Coast Water Board Staff Recommendation

In closing:

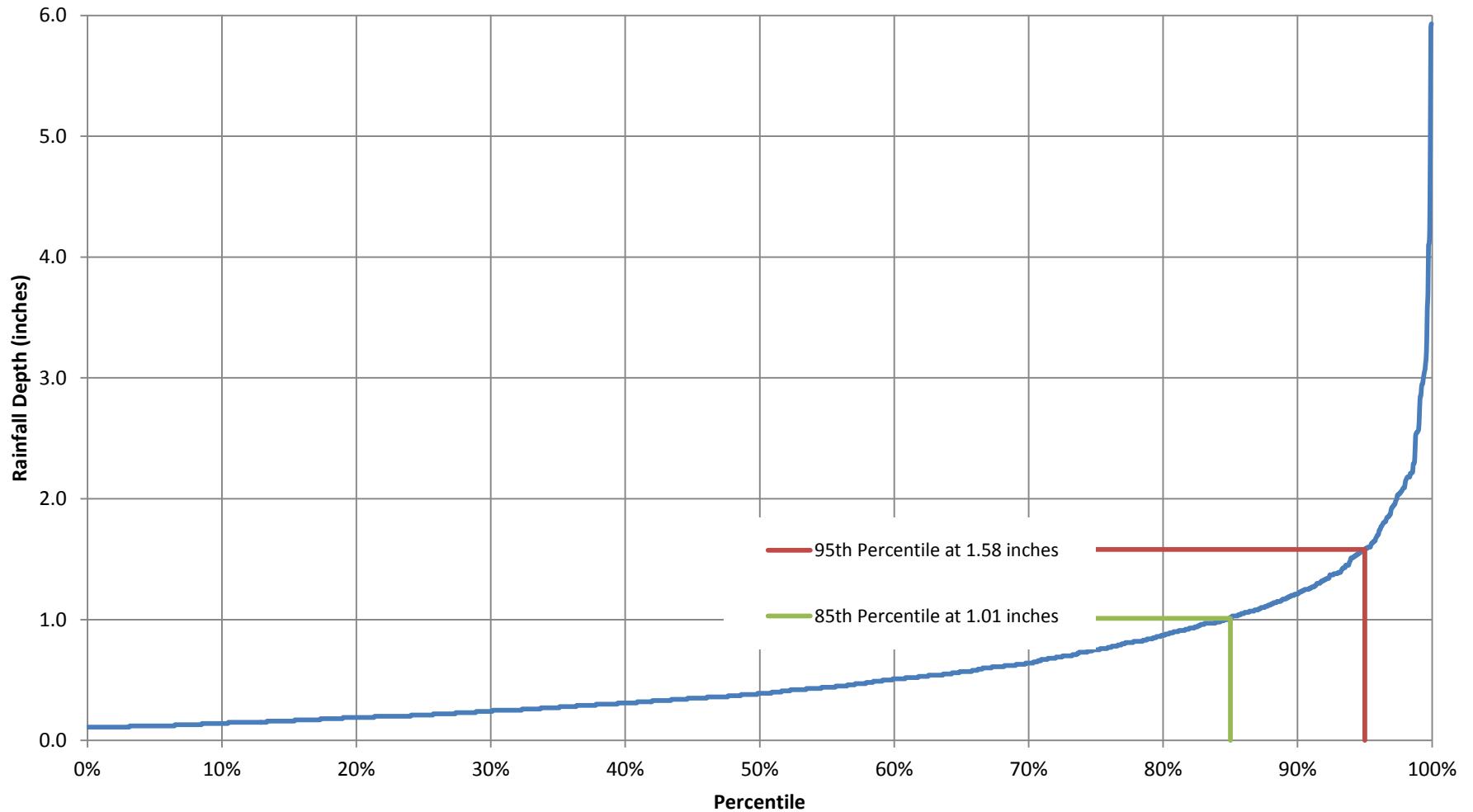
- Central Coast Water Board staff urges adoption of the Phase II Permit with:
 - Provisions for continued implementation of existing stormwater program elements
 - Minor revision to Attachment J allowing Executive Officer to approve alternative sizing methods

END

1.963 Multiplier

“Prevent offsite discharge from events up to the 95th percentile 24-hr rainfall event.”

Percentile Depths per Section 438 of EISA Technical Guidance for Watsonville Water Works Gage Data for Water Years 1948-2010





Woodridge
Atascadero
2/14/2006